

Resiliency Goals

Goals establish observable and measurable end results that will help shape the overall vision the state envisions. Colorado's Visioning and Goals Worksheet can provide guidance on the creation of a community vision and goals.

Strategies & Recommendations:

At all stages of the resilience-building process, focus should remain on taking an integrated approach. An integrated approach looks at systems and linkages—specifically, it requires thinking about relationships between state-level departments, between the government and residents, between the public sector and academia, between the public and private sectors and between problems. Strategies form plans and methods to reach the state's specified goals and align with the overall vision. Strategies are a good way to link the resiliency sectors to recommendations and project ideas. Creating implementable strategies may require revisions and further stakeholder engagement.

Ultimately, there must be stakeholder consensus for recommendations, which should be derived from the recommendations that each work group develops and presents to the full board for inclusive decision making. The multiple working groups should be tasked with developing a working group report focusing on no more than 3-5 substantive action items. The action items must be achievable under current conditions.

Each recommendation and strategy must be tied to a method to monitor and measure progress. It is key that the SRO office is cognizant of development being made, while also looking to meet clearly identified targets. The progress should be tracked by the office on a continual basis and documented via the production of quarterly and annual reports. The working groups should establish the strategies and recommendations, and the SRO office should measure progress and report to the full board.

RESILIENCY GOALS: COLORADO EXAMPLE

1. **RISK:** Reduce risk to Colorado communities.
2. **PLANNING:** Enhance resiliency planning capacity in Colorado communities.
3. **POLICY:** Develop, align, and streamline policies to empower resiliency.
4. **CULTURE:** Create a culture that fosters resiliency, instilling an inherent sense of responsibility among all.
5. **INVESTMENT:** Ingrain resiliency into investments in Colorado.

RESILIENCY GOALS: VIRGINIA EXAMPLE

1. **INFORM** diverse leaders from government, business, and the community about natural, climate-induced and man-made risks and vulnerabilities;
2. **EDUCATE** key groups about the models for community resiliency planning;
3. **ACTIVATE** Virginia communities by providing tools to engage in resiliency planning.

RESILIENCY GOALS: BOULDER, COLO., EXAMPLE

1. **CONNECT AND PREPARE:** Prepare all segments of the community for uncertainty and disruption by encouraging community preparedness, creating a culture of risk awareness and personalizing resilience.
2. **PARTNER AND INNOVATE:** Capitalize on the collective problem-solving and creativity of our community by leveraging advances in data, research and observations to address emerging resilience challenges.
3. **TRANSFORM AND INTEGRATE:** Embed resilience into city operations and systems by transforming our approach to community resilience.

2. Staffing Needs, Roles and Responsibilities

House Bill 2935 identifies and tasks the West Virginia State Resiliency Office (SRO) with numerous roles related to the planning and implementation of functions that make the state more resilient to natural disasters. Beyond the authority granted in the legislation, there are additional roles that the SRO must champion in order for the office to accomplish its mission. These functions will give the office sustained momentum and ensure that the state is better prepared for the next disaster.

The SRO must work to improve the capacity of communities and regions to absorb and recover from external events, such as natural disasters and economic trends. It is also to serve as the coordinated resource hub to engage federal, state, and local partners essential to incorporating resiliency into economic development plans, initiatives, and specific projects needed for long-term sustainable economic diversification in the entire state. The following section summarizes the key roles that resiliency offices around the country employ to make resiliency an ongoing priority and how they staff those offices.

Staffing Needs

In order to function under the office's mission, appropriate staffing and delegation of responsibilities is key. As the SRO develops, the initial optimal number of staff is three: one director, and two project coordinators or specialists. As responsibilities increase and/or declared disasters require regular, dedicated involvement from SRO staff, staffing needs will likely increase.

The role of the Director of the West Virginia State Resilience Office is to lead the creation of a cohesive resilience strategy for the state, and to plan, coordinate, and direct resilience efforts across state departments. The director will guide the creation of a resilience vision and strategy document, and work with local, state and federal partners and with external stakeholders to deliver key initiatives that will expand and complement the state's ongoing resilience work.

The office should also support the employment of project coordinators or similar positions to organize, coordinate and advance resilience and recovery processes at the local level. They should be responsible for professional-level planning, implementation and support of disaster recovery goals, objectives and strategies following a disaster. Their primary role is to manage and coordinate support of local efforts to redevelop and build community. In addition, the individuals occupying the positions should be able to represent and speak on behalf of SRO leadership. The position should work to integrate multiple stakeholders and efforts on behalf of local resiliency and recovery efforts.

Roles and Responsibilities

Provide Ongoing Training Opportunities

The SRO should establish a sustainable and permanent training program for key stakeholders, in partnership with communities, a variety of professionals from the social and economic sector and specialized local and national institutions. Work with local and federal resources, and focus on training priority target groups such as: municipal departments and emergency management

authorities; fire and rescue services; medical emergency teams and law enforcement personnel; economic development specialists; building code inspectors; subject matter experts; the private sector; community leaders; and educators. There are many opportunities to conduct or participate in training. Listed below are some of the major avenues to allow the state and communities to expand its knowledge and expertise in disaster recovery and resilience.

- Develop training using Homeland Security grants/funds
- National Incident Management System (NIMS)/Incident Command System (ICS) training protocols
- Independent Study Program through the FEMA Emergency Management Institute (EMI)
- Webinars or other web based training activities
- Workshops or training in conjunction with state or Regional Professional Development Centers (RPDCs).

Promote Planning

Hazard Mitigation

In compliance with federal planning laws, regulations and guidance, communities must prepare or adopt hazard mitigation plans, which are approved by FEMA in order to be eligible to receive certain federal funding for mitigation and other non-emergency disaster projects. Hazard mitigation plans are documents that aim to identify, assess and reduce the long-term risk to life and property from a range of natural hazards. They must be updated every five years, and can be stand-alone documents or integrated in a community's local comprehensive plan. Counties can prepare hazard mitigation plans on their own, with other jurisdictions within the county or with other counties as part of a multi-county region. In West Virginia, these plans are prepared at the regional level by RPDCs (with the exception of Jefferson County).

Pre-Disaster Planning

The ability of a community to successfully manage the recovery process begins with its efforts in pre-disaster preparedness, mitigation, and recovery capacity building. These efforts result in resilient communities with an improved ability to withstand, respond to, and recover from disasters. Pre-disaster recovery planning promotes a process in which the whole community fully engages with and considers the needs and resources of all its members. The community will provide leadership in developing recovery priorities and activities that are realistic, well planned, and clearly communicated. Effective pre-disaster planning is an important process that allows a comprehensive and integrated understanding of community objectives. Pre-disaster planning also connects community plans to guide post-disaster decisions and investments. The SRO should work with WVDHSEM and other key stakeholders to prepare a state level pre-disaster recovery plans (PDRP) while also a concentrated effort to support and encourage the development of local and regional PDRPs.

Comprehensive Planning

Resiliency concepts can be incorporated into comprehensive plans, either during full updates or by amendment. Also known as master plans or general plans, comprehensive plans lay out the long-term vision and values for a community, and outline goals and strategies for future development and growth. Comprehensive plans address a variety of issues ranging from land use

and development, housing, economic development, transportation and infrastructure, and protection of existing natural areas.

Education and Engagement

Resiliency is a topic that will require an ongoing sharing of best practices and infusion of new knowledge as markets, climate, hazards and solutions continue to evolve. The state should be committed to making the SRO a central location for posting information and engaging community feedback. More extensive education programs should also be developed in partnership with learning institutions and professional associations that have the capacity and infrastructure to create platforms for training and knowledge exchange. Lessons learned, case studies, and best practice examples should be gathered, documented and shared through training, presentations, and online forums to expand the understanding of resiliency and the application of solutions in planning, policy, and practice. An ongoing dialog with the public through forums, online tools, and advisory panels should also be utilized to gather on-the-ground experiences and the real-life issues facing residents that will be continuously factored into resiliency strategies and solutions education.

Ensure Investments Decrease Vulnerabilities

The SRO should consult all community development, housing, environmental, and infrastructure programs when applicable to assess investment plans based on current and future risks. Additionally, the SRO should provide guidance to pertinent state departments or entities regarding investing state resources in more resilient ways. The goal of this action is to help state agencies understand where risks overlap with planned investments. At a minimum, the SRO should closely examine plans for transportation, stormwater management, economic development, housing and community development, conservation and land use, water infrastructure, health and social services, and natural and cultural resources. This includes ensuring that post-disaster investments do not simply rebuild to the same pre-disaster standards when opportunities for enhanced resilience exist.

Develop a Resilience Data Resource

All of a state's concurrent resilience planning efforts should use the most complete and up-to-date data available. To facilitate this goal, the SRO should develop an online system that organizes all resilience data in one place and provides an interface that clearly explains what each data layer is showing. A centralized, user-friendly resilience database can serve to familiarize planners with key resilience metrics, encourage the use of data in planning processes, and ensure that all data resources are considered. This database should serve as the primary science-based tool for evaluating existing and planned investments, alongside the state's risk assessment.

Assess At-Risk Assets

The SRO should lead a review of at-risk assets. Assessments should compare, at a minimum, the cost of protecting the asset, the cost of relocating the asset, and the impact of losing or abandoning the asset. This review should be done in collaboration with relevant state agencies and local governments. Eventually, this process should include everything from privately owned properties such as businesses, churches, farmland, and residential communities, to state and city

owned facilities such as roads and bridges, police and fire stations, parks, libraries, schools, and government office buildings.

Develop Technical Assistance Tools and Capabilities

Capacity & Expertise

The state should build resilience expertise and capacity at the local level by providing technical assistance and relevant tools to communities. These should be focused on a few widely applicable economic development issues, such as land use planning, transportation planning, codes and permitting, or facility siting. Potential technical assistance could include trainings for local government staff or a circuit rider program where state staff provide on-going, direct assistance to local officials. Although the goal should be to deliver as much assistance as possible, time and staff limitations demand a process that prioritizes communities with low resilience planning capacity and high hazard risk. The state should consider developing and delivering technical assistance in partnership with RPDC's, regional universities and non-profits to increase efficiency and take advantage of existing in-state expertise.

Tools

In addition to policies, the SRO should provide access to best practice resources, such as: model ordinances, planning tools and guidance documents and resilience and recovery checklists for communities to emulate and implement. The EPA's Flood Resilience Checklist, which helps communities prepare for floods, is an example of the types of tools that could be provided. The state should develop a centralized online system to provide easy access to this information, a resource that could be especially useful to small urban or rural communities that lack internal planning staff and adequate connections to external expertise. The online system could also list opportunities to apply for technical assistance support from the state, federal government, foundations, and other resources. Non-profit organizations and local institutions can be valuable partners in producing these guides and toolkits.

Identify or Establish Funding Opportunities

Grant Opportunities

The SRO should be the clearinghouse for all funding opportunities to promote a more resilient state, gathering and disseminating information from federal and non-profit funding source, and then communicating with RPDC's and local governments regarding any opportunities. Technical assistance should also be provided to assist with the grant application development, project implementation and closeout process. The SRO should also work with state departments to incorporate resiliency into the criteria for grants, incentives and other funding opportunities.

Establish a State Resilience Fund

The state should develop a permanent fund to invest in resiliency projects, meet recovery needs in the aftermath of disasters, and assist communities with implementing local resilience measures. A resilience fund can provide flexible and immediate resources. For example, these funds could pay directly for resilience improvements to state infrastructure, serve as a match for available federal and local resources, provide grants to communities, or function as a state

revolving loan fund. In the aftermath of a disaster, these funds could be made available more quickly than federal funds, which often take an extended amount of time to deploy.

There are numerous ways states can build a fund, including committing a percentage of existing state infrastructure, economic development, or community development budgets to resilience projects in those areas. The state can also create special taxes or fees dedicated to resilience, such as real estate transfer fees and stormwater utility fees.

Promote FEMA's Community Rating System

The Community Rating System (CRS) is a voluntary incentive program that encourages communities to undertake floodplain management activities that go above and beyond the minimum National Flood Insurance Program requirements. Activities are organized under four main categories (Public Information, Mapping and Regulation, Flood Damage Reduction, and Warning and Response), and provide participating communities with discounts on flood insurance premium rates ranging from 5%-45%. Beyond the reduced insurance premiums for all residents in a CRS-designated community, participating in the CRS program can provide a number of other benefits, including improved public safety, enhanced environmental protection, reduced damage to property, free technical assistance for designing and implementing certain activities, and a better informed and prepared public.

Examples of SRO Activities (Steady State and Disaster Recovery)

Steady State Activities

1. Overseeing and facilitating implementation of the FEMA-4273-DR-WV Recovery Support Strategy (RSS). The RSS includes a number of issues, goals, objectives, strategies, and actions across four Recovery Support Functions (RSFs), which the state is encouraged to implement with the support of federal partners in order to advance statewide recovery and resilience.
2. Working with local, state and federal partners to secure funds for disaster recovery and economic resilience and diversification.
 - a. Manage and administer federal funds and initiatives awarded for disaster recovery and economic resilience and diversification.
 - b. Develop program guidelines, forms, and technical assistance materials for available funds in accordance with federal regulations and guidelines.
 - c. Provide technical assistance to applicants as needed.
 - d. Serve as a funding identification hub by researching and staying current with federal and other funding opportunities for community and economic development, with special focus on resilience and diversification.
 - e. Work with Regional Planning and Development Councils (RPDCs) and municipalities to establish an information network to distribute funding opportunities in a timely manner and assist with technical assistance as needed.

3. Establish and facilitate regular communication between federal, state, local and private sector agencies and organizations to further disaster recovery and economic resilience and diversification.
 - a. Identify relevant federal, state, local, private, and nonprofit stakeholders in community resiliency and establish ongoing and regular structure of meetings, list serve, and other regular forms of communication.
 - b. See “DoC SRO Mission and Goals 2-14-17” document for a list of identified relevant stakeholders.
4. Coordinate, integrate, and expand planning efforts in the state for hazard mitigation, long-term disaster recovery, and economic diversification.
 - a. Develop a database of counties and communities with existing comprehensive plans.
 - b. Work with RPDCs to incorporate economic resiliency into annual Comprehensive Economic Development Strategies.
 - c. Work with RPDCs to assess the status and implementation of hazard mitigation plans.
 - d. Work with WVU Land Use Law Clinic to strengthen and expand comprehensive planning efforts in counties and communities.
 - e. Work with relevant state agencies to update the statewide flood prevention plan.
 - f. Work with relevant state and local agencies to integrate hazard mitigation into existing plans using tools such as safe growth audits.
 - g. Integrate Land Use Master Plans developed by the Office of Coalfield Community Development into existing economic and community development planning.
 - h. Integrate fossil energy, renewable energy, and energy efficiency planning conducted by the Division of Energy into existing economic and community development planning.
5. Strengthen local capacity and initiatives that address hazard mitigation, long-term disaster recovery, and economic diversification.
 - a. Strengthen and expand local disaster preparedness, prevention, and response programs such as StormReady, Citizen Corps, and Community Emergency Response Teams.
 - b. Strengthen and expand the Community Rating System (CRS) in the state.
 - c. Work with RPDCs and municipalities to employ Local Disaster Recovery Managers (LDRMs), circuit riders or VISTAs to assist local governments.
 - d. Provide training opportunities to all stakeholders to enhance resiliency capabilities.

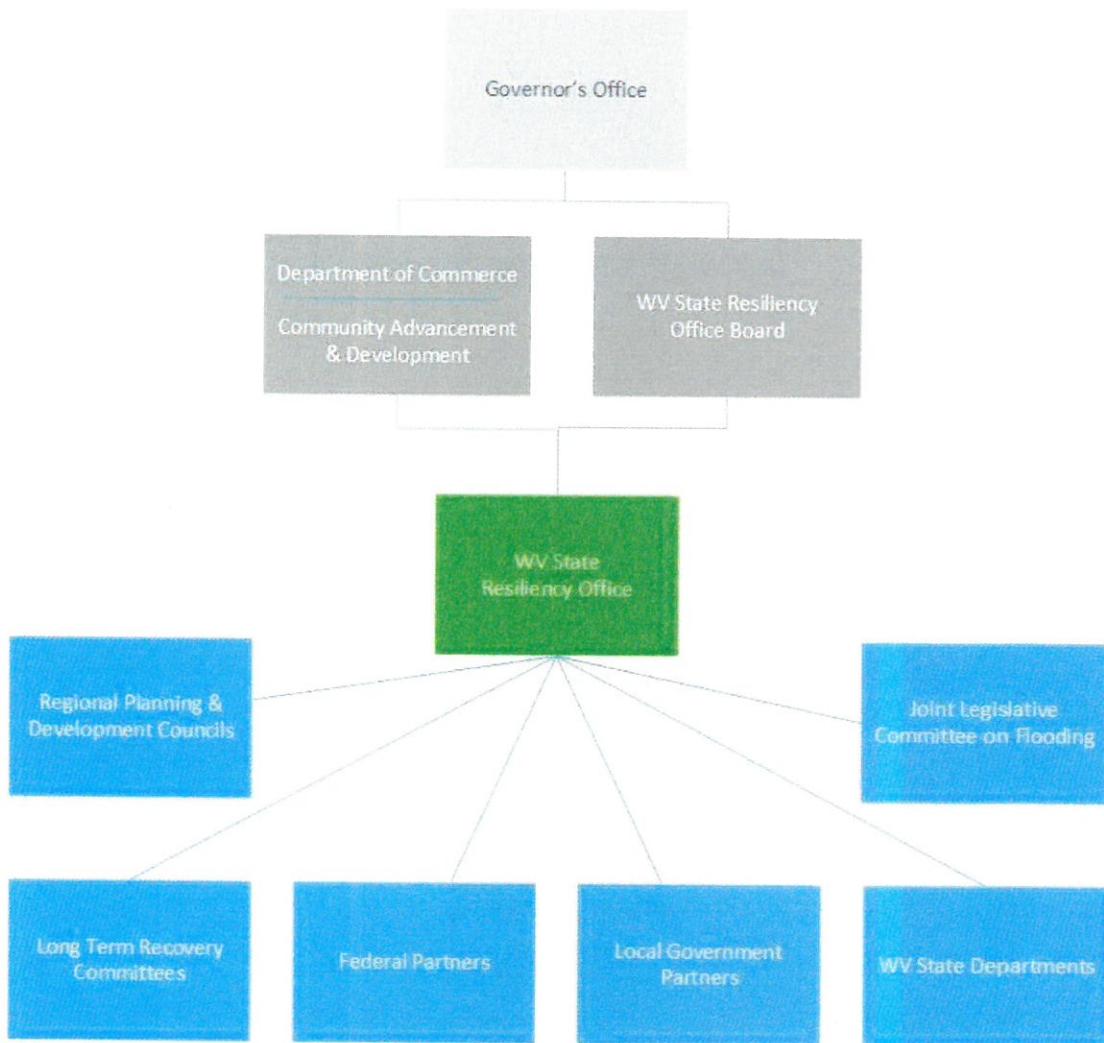
Disaster Recovery Activities

1. Coordinate long-term disaster recovery efforts in response to disasters as they occur.
 - a. Organize and implement long-term planning and recovery activities in response to specific disasters.
 - b. Organize and implement long-term planning for economic diversification of areas and regions dependent upon single-industry economies.

2. As needed, assign staff to represent the SRO and assist FEMA Interagency Recovery Coordination (IRC) staff at the FEMA West Virginia Recovery Office (WVRO).
 - a. It is critical for the state to participate in development of the Mission Scoping Assessment (MSA) and Recovery Support Strategy (RSS), as these documents outline recovery and resilience opportunities for the state, as well as potential technical and direct assistance from the federal government. Participation from the SRO in these processes will ensure relevant and effective actions for West Virginia.
3. Administer the HUD Community Development Block Grant-Disaster Recovery (CDBG-DR) funds to assist recovery efforts in impacted areas.
 - a. Identify unmet needs from the disaster and use CDBG-DR funds to address issues in the impacted areas.

3. Organizational Chart

The organizational chart below is an example of the position of the SRO within the structure of West Virginia state government. It will ultimately be up to the Department of Commerce and the Community Advancement and Development division to determine where the SRO fits in relation to other state agencies and divisions. Our recommendation is for the office to be connected to all partners that have a stake in recovery and resiliency. No one state agency should report directly to the SRO, but the office should be a consulting party anytime that a decision is being made that has a component of resiliency. This would include state investments, long-term planning and anything that can be tied to increasing resiliency. The SRO must change the mindset of decision makers in the state to ensure that resiliency is a key component in the process. That is why it is critical for the SRO to immediately gain traction and show value in the resources it can provide across all sectors of society.



4. Coordination with Partners

The success of the SRO depends entirely upon open and effective communication and collaboration with all partners – local, state, and federal government agencies, local organizations, non-profits, NGOs, volunteer, and others. It is critical to not only follow the direct line of authority indicated in the organizational chart in the previous section, but to maintain working relationships with state and federal partners. The West Virginia National Guard (WVNG), West Virginia Department of Homeland Security and Emergency Management (WVDHSEM), and the FEMA West Virginia Recovery Office (WVRO) have been involved in recovery efforts since the flooding events of 2016, and continue to work on projects and efforts that align with the purpose and scope of the SRO. These, and other partners identified in the SRO legislation should be viewed as consistent partners who can offer advisory and practical support.

The SRO will serve as a central hub for coordinating resilience efforts across state agencies, and the distribution of information re: project and funding opportunities to local governments and organizations. At its best, the SRO will coordinate recovery and resilience efforts, provide transparency, maintain a sense of urgency at the state level, advocate for recovery funding, and build partnerships across multi-faceted public and private organizations.

Maintaining an open, collaborative dialogue with all partners allows for a number of benefits:

1. All partners are aware of recovery and resilience activities occurring throughout the state, and can identify areas for collaboration and support;
2. Potential conflicts and duplication of effort are identified and corrected early;
3. Communication and participation from organizations such as Regional Planning and Development Councils (RPDCs), Long Term Recovery Committees (LTRCs) and volunteer groups provides awareness of successes, challenges, and needs within local communities;
4. All partners can discuss potential funding opportunities and identify programs in which they may combine efforts to meet needs of multiple communities;
5. Similarly, all partners can work together to develop a series of actions that communities can take to increase their chances of receiving resilience funding; and
6. All partners can work together to evaluate the economic benefits, cultural or historical significances, and social impacts of at-risk assets and consider all options to protect them from future hazards.

Recommendation:

1. The SRO should work with existing processes to develop and maintain communication with all partners.
2. Schedule regular, recurring meetings or conference calls that work for all partners. This will allow the SRO and partners to provide updates and ask questions.
3. An annual summit, or other venue in which resiliency training and planning activities can occur, would benefit all parties. Existing annual summits or workshops should be leveraged.
4. The development of working groups or other councils (some which may have been designated through the Resiliency Framework process) may be a consideration as special circumstances or opportunities present themselves.
5. Consider creating an SRO website or SharePoint site that all partners can access in order to share project updates, funding opportunities, and resiliency planning resources.

5. Specific Factors for West Virginia Resiliency

Communities throughout West Virginia face many of the same recovery and resiliency challenges. The SRO can serve not only as the central point of contact for information about addressing these challenges, but can be the driving force behind the initiatives to address each one. The WVRO IRC Team identified cross-cutting issues, each of which is listed below, along with recommendation on how the SRO may lead or guide initiatives to address them. Implementation for almost all of the proposed solutions will require coordination across the entire state.

Communication and Coordination

There is a need for a centralized coordinating body, which would serve to assist the RPDCs, LTRCs, and other municipal and local organizations. Municipal, regional and local organizations want to sustain their unique communities, and although they have access to some information (funding opportunities, programs, and resources), there are many gaps. They would benefit from a coordinating body which can obtain and disseminate comprehensive information and opportunities related to long term recovery. Also, they must ensure regional and state-wide meetings are regularly scheduled and supported administratively. Communications are a big issue. There should be a platform for disseminating information to local communities to ensure the whole state is equipped with the tools needed to make efficient and effective decisions.

Recommendations:

1. The SRO should serve as the main coordinating body for information-sharing and communicating state goals, plans and programs to local and regional partners. Embedding SRO staff with RPDCs may be considered to provide direct technical and coordination assistance.
2. Coordinate with regional and local organizations, holding regular meetings/conference calls, in order to maintain and grow relationships. The communication should increase during the disaster recovery process to ensure that there is clear communication between the state and local representatives.

Capacity

Municipal, regional and local organizations all reported a lack of capacity, both in personnel and finances. As a result of limited staffing, the ability to implement current program activities, and search for new funding and projects, is greatly hindered. It is also challenging to find sufficient funding to support implementation. Needs include a reliable, continued funding source to support current staff and future needs.

Recommendations:

1. The SRO should work to enhance statewide resiliency and recovery preparedness by encouraging recruitment and retention of qualified personnel. The SRO can support this effort by providing or coordinating training opportunities through federal and state partners, to include: long-term recovery planning and implementation, community resiliency and sustainability.
2. Provide technical support to local organizations throughout the grant process: researching, writing, management, and assessment/reporting.
3. Use CDBG-DR funds or other sources to employ LDRMs in disaster impacted areas.

Community Engagement

West Virginia communities want to be engaged in the recovery process and work on resiliency efforts from the bottom-up. Some believe there is too much reliance on the state and federal programs, and want communities to “own” their recovery. Municipal and local organizations would like assistance in organizing and fostering community engagement.

Recommendations:

1. The SRO can coordinate regular regional meetings to organize local community-wide recovery priorities, then integrate these priorities into state-wide initiatives, leveraging existing relationships and programs with federal and other partners.
2. Engage local citizens and state partners through the use of social media. Use of websites, Facebook and Twitter are often easily accessible and widely used.

Resilient Housing

The need for more affordable and resilient housing was expressed by all communities. This need existed before the flood; however, the number of individuals and families displaced by the flood has made the need for available housing a priority. Additionally, blight is a challenge in many communities. Local efforts to demolish vacant and dilapidated structures are often delayed due to legal waiting periods when owners cannot be located.

Recommendations:

1. The SRO should lead efforts to educate homeowners on preparedness options and mitigation strategies while rebuilding to ensure resiliency.
2. The SRO can work with state government to develop incentives to encourage mitigation strategies while rebuilding.
3. To address blight, the SRO should lead the effort to identify and abate all destroyed, vacant, and derelict structures within the impacted communities and rural areas. Other suggestions include: encouraging private redevelopment of blighted properties and potential use of condemned structures for fire department training exercises.

Broadband

Lack of broadband is a major issue throughout the state. Unreliable and slow internet access affects businesses, retention of talent and potential businesses coming to West Virginia, individual access to information and internet-dependent employment (home and otherwise), and the ability to study and work from home.

Recommendation: The formation of the Governor’s West Virginia Broadband Enhancement Council (WVBEC) in 2016 illustrates the state’s commitment to increase broadband access and set goals for expanding broadband networks in the impacted rural areas. The SRO should serve as a liaison and hub for information-sharing to local communities and organizations so that they can explore programs which may help get their communities connected.

GIS Data

Geographic Information System (GIS) data and capabilities are limited at the regional and local level. There are various small sections of reliable utility data, and the West Virginia Infrastructure and Jobs Development Council has water and sewer systems mapped. The data available, however, is often not comprehensive. There is a need for a centralized, comprehensive GIS system, which can be accessed by all state, regional and local agencies and organizations. Access to such a system would be instrumental in planning efforts, grant applications, and programmatic reporting.

Recommendations:

1. The SRO can coordinate GIS requests with the West Virginia Office of GIS Coordination (<http://www.wvgs.wvnet.edu/www/giscoord/index.php>) and the West Virginia Geological and Economic Survey (<http://www.wvgs.wvnet.edu/www/giscoord/index.php>) to see if needed information and mapping already exists.
2. The SRO can serve as a central hub for information-sharing on programs available to state and local organizations that may help fill the GIS capability gap.

Economic Development

There is a strong desire to expand available economic development assets throughout the state. Regional and local organizations want to use and enhance what is available to them: rivers, adventure tourism, theaters and “Main Street” initiatives. Communities want to see their storefronts filled and streets lined with residents and tourists alike; in order to attract businesses and tourists, they need help rebuilding and developing those attractions.

Recommendation:

In coordination with EDA and other partners, the SRO should lead oversight of economic development initiatives in West Virginia through the lens of resiliency. Many of the suggestions below are discussed in greater detail in the RSS:

1. Support and encourage municipality efforts to explore and implement economic diversification.
2. Support revitalization of downtown commercial districts to promote business development and economic diversification.
3. Coordinate town hall meetings and encourage community engagement in economic planning and development meetings.
4. Identify opportunities to develop new and improve existing tourism attractions, destinations and businesses.
5. Expand and publicize the state trails plan (walking/biking/hiking/ATV).
6. Expand and publicize historic and cultural sites.
7. Develop mechanisms that allow the state to better encourage development of new entrepreneurs and to develop new skilled workers for the tourism sector.

Floodplain Restrictions

Development in the floodplain and floodway has drastically increased flood risk in West Virginia and made the population vulnerable to catastrophic losses. Current and future development in these areas is unavoidable, but steps can be taken to mitigate against risk and make communities more resilient. The SRO should work closely with West Virginia DHSEM to promote mitigation measures and other programs to reduce the overall risk throughout the entire state, and specifically in socially vulnerable areas.

Recommendations:

1. Strengthen and expand the Community Rating System (CRS) in the state through collaboration with West Virginia DHSEM.
2. Recommend adoption of floodplain ordinances in communities where they are not present. Work with municipalities with existing ordinances to ensure that the code is up to date and being enforced.
3. Promote the use of FEMA grant programs for mitigation of vulnerable assets and populations.
4. Work with the WVU Land Use Clinic to promote the adoption of ordinances to increase resiliency.

7. Monitoring and Measuring Progress

The SRO should identify a set of performance metrics that it can use to independently evaluate the success of state-funded projects. For example, “losses avoided” estimates are perhaps the most effective way to demonstrate how resilience strategies minimize the loss of life and property in different natural disaster scenarios. FEMA’s Hazus-MH is an example of a model that produces losses avoided estimates. The Social Vulnerability Index is another metric that has been used nationwide to measure the exposure of different populations to natural disasters based on capacity for preparedness and recovery. The metric can be applied from the regional level all the way down to individual census tracts.

Beyond providing useful internal feedback, identifying, applying, and publicizing a standard set of performance metrics to state funded projects can help build a strong case for resilience throughout the state. Baselines are needed to better assess progress and to set goals in order to allocate resources. A mechanism is needed to help understand investments made to improve resilience.

Top-down tools are often intended for use by an oversight body or require external expertise to help a community measure different aspects of their resilience to inform decision making. Bottom-up tools are locally based and locally driven indexes and models and are designed to help communities predict how well they would function following a disaster. The overarching target categories for developing community-based resilience measures typically revolve around infrastructure, social factors, buildings and structures and vulnerable populations. Every tool should be:

- Open, transparent, well documented and as simple as possible;
- Can be replicated;
- Can address multiple hazards;
- Are representative of a state’s geographical extent, physical characteristics, and diversity; and
- Are adaptable and scalable to different community sizes, compositions, and circumstances.

Hazard and disaster planning are different from identifying measures. Planning includes measures and indicators, and involves assessing the physical infrastructure and land used for zoning, but does not necessarily take into account the adaptive capacity, the social networks, or the perceptions of the community with respect to risk. Planning is a tool that can be used to help achieve resilience, but resilience is a much broader framework. Similarly, mitigation is a tool that can be used to achieve resilience, but does not take into account different elements within a community that are important in achieving resilience. Leadership is an element not accounted for under planning or mitigation yet is an integral part of why some communities are more resilient than others.

A full rollout of the SRO will involve many simultaneous moving parts, and consistent communication is a crucial part of this process. The SRO should assign staff to conduct regular outreach and check-ins with state agencies undertaking resilience type evaluations, partner

institutions outside of state government, and local governments implementing projects funded through a state resilience fund. This is critical not only to monitor and measure progress on specific projects, but also to receive feedback on the state's performance in the coordinating role and to evaluate the effectiveness of different incentives and strategies.

The SRO should eventually require that any project—local or state level—applying for state funding propose a set of performance metrics that will be used to determine success. These projects should also be required to submit quarterly progress report back to the office and incorporate any data gathered into the state's central resilience database.

8. Resources and Funding to Support Resiliency

Following a presidentially declared major disaster, a plethora of resources become available to help residents and communities recover. The goal of the SRO should be to help the state mitigate against potential hazards and incorporate resiliency into all facets of society. This can range from education and promotion of flood-proofing homes, to implementing major infrastructure projects to address vulnerable assets. The SRO must be the catalyst to make resiliency an engrained piece of current and future decision making. This will involve close guidance and recommendations to all stakeholders.

This section addresses resources and funding sources that may be leveraged by state and local entities to incorporate resiliency measures. There will undoubtedly be additional funding opportunities available, but this section addresses the most common and consistent sources that other states have identified and continually utilize. The SRO should be the clearinghouse for all funding opportunities related to resiliency, and these opportunities should be conveyed to RPDC's, local governments and any other pertinent partners.

Department of Homeland Security (DHS)

Homeland Security Grant Program

The purpose of the Homeland Security Grant Program (HSGP) is to support state, local and tribal efforts to prevent terrorism and other catastrophic events and to prepare the Nation for the threats and hazards that pose the greatest risk to the security of the United States. The HSGP plays an important role in the implementation of the National Preparedness System by supporting the building, sustainment, and delivery of core capabilities essential to achieving the National Preparedness Goal (the Goal) of a secure and resilient Nation. The HSGP supports efforts to build and sustain core capabilities across the five mission areas of Prevention, Protection, Mitigation, Response, and Recovery based on allowable costs

Federal Emergency Management Agency (FEMA)

- Preparedness (Non-Disaster) Grants

FEMA provides state and local governments with preparedness program funding in the form of Preparedness (non-disaster) Grants to enhance the capacity of state and local emergency responders to prevent, respond to, and recover from a weapons of mass destruction terrorism incident involving chemical, biological, radiological, nuclear and other explosive devices, and cyber-attacks.

- Hazard Mitigation Grant Program (HMGP)

Provides funds to implement hazard mitigation measures following a Presidential declaration of disaster. Hazard mitigation actions are any action taken to reduce or eliminate the long term risks to people and property from natural hazards. HMGP funding is made available, when authorized, for hazard mitigation planning and projects. HMGP funding is made available to the State based on the estimated total Federal assistance FEMA provides for disaster recovery under the Presidential declaration. Grants are designed to assist local communities, States, Federally recognized Tribes and Territories with

implementing mitigation measures during the reconstruction process. The goal is to reduce overall risk to the population and structures from future hazard events, while also reducing reliance on Federal funding in future disasters.

- **Pre-Disaster Mitigation (PDM)**

Program provides funds to States, territories, Indian Tribal governments and communities for hazard mitigation planning and the implementation of mitigation projects prior to a disaster event. Federal funding for this nationally competitive grant program is generally an annual allocation (subject to Congressional appropriation).

- **Flood Mitigation Assistance (FMA)**

Provides federal funding to assist states and communities to fund cost effective measures to reduce or eliminate the long-term risk of flood damage to buildings, manufactured homes, and other structures insurable under the National Flood Insurance Program (NFIP).

Economic Development Authority (EDA)

- **Planning and Local Technical Assistance Programs**

Assists in developing economic development plans and studies designed to build capacity and guide the economic prosperity and resiliency of a region. The Planning program helps support investments designed to guide the eventual creation and retention of high-quality jobs, particularly for the unemployed and underemployed in the Nation's most economically distressed regions. The Local Technical Assistance program strengthens the capacity of organizations to undertake and promote effective economic development programs through projects such as feasibility studies and impact analyses.

- **Public Works and Economic Adjustment Assistance**

Designed to leverage existing regional assets and support the implementation of economic development strategies that creatively advance economic prosperity in distressed communities. EDA gives particular consideration to applications for communities with low income and high unemployment, and where severe weather has impacted businesses. Projects must include a focus on encouraging job growth.

United State Department of Agriculture (USDA)

- **Agricultural Management Assistance Program**

Helps agricultural producers use conservation to manage risk and address natural resource issues through natural resources conservation.

- **Conservation Innovation Grants**

Offer funding opportunities at the state level to stimulate the development and adoption of innovative conservation approaches and technologies that leverage federal investment in environmental enhancement and protection.

- The Conservation Stewardship Program
Helps agricultural producers maintain and improve their existing conservation systems and adopt additional conservation activities to address priority resources concerns. Participants earn CSP payments for conservation performance—the higher the performance, the higher the payment.
- Rural Economic Development Loan and Grant program
Provides funding for rural projects through local utility organizations. USDA provides zero-interest loans to local utilities which they, in turn, pass through to local businesses (ultimate recipients) for projects that will create and retain employment in rural areas. The ultimate recipients repay the lending utility directly. The utility is responsible for repayment to USDA.
- The Environmental Quality Incentives Program
Provides financial and technical assistance to agricultural producers in order to address natural resource concerns and deliver environmental benefits, such as improved water and air quality, conserved ground and surface water, reduced soil erosion and sedimentation, or improved or created wildlife habitat.
- Rural Energy for America Program Energy Audit & Renewable Energy Development Assistance Grants
Grantees assist rural small businesses and agricultural producers by conducting and promoting energy audits, and providing renewable energy development assistance (REDA).

Housing & Urban Development (HUD)

- Community Development Block Grant (CDBG)
Provides federal funds for community and economic development projects throughout West Virginia. The program supports job creation and retention efforts, local government efforts to provide affordable infrastructure systems and community efforts to improve the quality of life for low- to moderate-income citizens. The program supports the development of viable communities by assisting in the provision of a suitable living environment and expanding economic opportunity, principally for those of low and moderate income (80 percent and below median household income).
- Community Development Block Grant –Disaster Recovery (CDBG-DR)
HUD provides flexible grants to help cities, counties, and States recover from presidentially declared disasters, especially in low-income areas, subject to availability of supplemental appropriations. In response to presidentially declared disasters, Congress may appropriate additional funding for the Community Development Block Grant (CDBG) Program as Disaster Recovery grants to rebuild the affected areas and provide crucial seed money to start the recovery process. Since CDBG Disaster Recovery (CDBG-DR) assistance may fund a broad range of recovery activities, HUD can help communities and neighborhoods that otherwise might not recover due to limited resources.

United States Army Corp of Engineers (USACE)

The USACE Flood Risk Management Program (FRMP) works across the agency to focus the policies, programs and expertise of USACE toward reducing overall flood risk. This includes the appropriate use and resiliency of structures such as levees and floodwalls, as well as promoting alternatives when other approaches (e.g., land acquisition, flood proofing, etc.) reduce the risk of loss of life, reduce long-term economic damages to the public and private sector, and improve the natural environment.

Environmental Protection Agency (EPA)

- **Building Blocks for Sustainable Communities**
One- to two-day, targeted technical assistance to give communities tools to implement smart growth development approaches. Eligible applicants are tribal, county, and local governments, and nonprofit organizations that have the support of the local government on whose behalf they are applying.
- **Cool & Connected**
Helps rural communities use broadband service to revitalize main streets and promote economic development. Any community representative can apply.
- **Greening America's Communities**
Helps selected cities and towns envision and implement design strategies for more sustainable communities. In 2016, the program is being offered to cities that are participating in EPA's Making a Visible Difference in Communities initiative or the Strong Cities, Strong Communities initiative. Formerly called Greening America's Capitals.
- **Healthy Places for Healthy People**
Helps communities create walkable, healthy, economically vibrant places by engaging with their health care facility partners such as community health centers (including Federally Qualified Health Centers), nonprofit hospitals, and other health care facilities. Eligible applicants include local government representatives, health care facilities, local health departments, nonprofit organizations, tribes, and others proposing to work in a neighborhood, town, or city anywhere in the United States.
- **Local Foods, Local Places**
Helps communities develop and implement action plans that promote local foods and downtown revitalization. Representatives of communities anywhere in the United States are eligible to apply. This program builds on the Livable Communities in Appalachia Program, which offered technical assistance to help small towns and rural communities in Appalachia revitalize their traditional downtowns to boost the local economy and improve quality of life.
- **Smart Growth Implementation Assistance**
Works with public-sector entities that want to incorporate smart growth techniques into their development. As of 2015, EPA's regional staff identifies and selects communities to

assist. Summaries and reports from past SGIA projects can be helpful to communities facing similar issues.

- **Brownfields Grant**

Empowers states, communities, and other stakeholders to work together to prevent, assess, safely clean up, and sustainably reuse brownfields. A brownfield site is real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. EPA provides financial assistance to eligible applicants through four competitive grant programs: assessment grants, revolving loan fund grants, cleanup grants, and job training grants. Additionally, funding support is provided to state and tribal response programs through a separate mechanism.

Appalachian Regional Commission (ARC)

Provides federal grant funds for the support of economic and community development in West Virginia and 12 other states in the Appalachian Region. The goal of ARC is to create opportunities for self-sustaining economic development and improved quality of life. Projects approved for ARC assistance must support one of the four general goals:

1. Increase job opportunities and per capita income in Appalachia to reach parity with the nation.
2. Strengthen the capacity of the people of Appalachia to compete in the global economy.
3. Develop and improve Appalachia's infrastructure to make the Region economically competitive.
4. Build the Appalachian Development Highway System to reduce Appalachia's isolation.

Additional Funding Sources

Each county and community will have grants and resources that are not available to others due to specific factors. Each potential applicant should check with local economic development organizations, RPD's, non-profit and philanthropic organizations for potential funding sources. FEMA also delivered a West Virginia Community Recovery Resource Guide that is a comprehensive document that details potential grant opportunities across all sectors.

The SRO should provide technical assistance related to resiliency functions for application development, implementation and closeout. The office should also look at the possibility of hiring Local Disaster Recovery Coordinators (LDRC's) or circuit riders that can assist with grant the process in specific areas or counties.

The SRO should also look at established a Resiliency Fund or similar source to provide funding to communities that make resiliency a priority. This can be done through future CDBG-DR allocations or the creation of a special fund.

Governor's Recovery & Alliance Session: Read-Ahead Document

Purpose of Summit

Thank you for agreeing to participate in the Governor's Recovery & Alliance Session. The purpose of the session is to develop an overarching, unified strategy that multiple state and federal agencies will use to guide recovery funding decisions related to the June 2016 flood event. This unified strategy should enable informed decision-making by senior leadership at all levels: local, state, and federal. As a first step in creating this unified strategy, this session will convene senior level state and federal officials to build consensus on strategic priorities, a framework for the strategy, and a path forward and timeframe for the strategy's development. While the session will focus on how to maximize almost \$700 million in funding available following flooding in June 2016, this approach can be applied to future resource allocation and funding decisions that will enhance West Virginia's resilience while also spurring economic development and creating jobs.

Preparation

Each participant from the State Resiliency Board is encouraged to bring one individual to the session to serve as the **action officer** for their respective agency. This individual will stay for the entirety of the event and be available to represent their entity in subsequent meetings. The recovery session will set the priorities for the state, and the action officers will work to get the priorities and strategies implemented through collaborative efforts and the production of an action plan. This will require availability to work with other action officers until the project is complete.

Role of the Action Officer

The action officer will be the point of contact and participant for all subsequent meetings regarding the implementation of the priorities/strategies developed at the session. They should have a working knowledge of the agency's programs, resources and authorities and be available to meet and represent their respective agency through implementation.

**Federal partners will serve in an advisory/consulting role to action officers during implementation process.*

Invitees

| Agency | Name | Position |
|--|----------------------|--------------------------|
| WV Governor's Office | Mike Hall | Chief of Staff |
| WV Department of Commerce | Woody Thrasher* | Cabinet Secretary |
| WV Department of Military Affairs | Jeff Sandy* | Cabinet Secretary |
| WVNG | James Hoyer* | Adjutant General |
| WV DHSEM | Jimmy Gianato* | Director |
| WV Conservation Agency | Brian Farkas* | Director |
| WV DEP | Austin Caperton* | Cabinet Secretary |
| WV DOT | Tom Smith* | Cabinet Secretary |
| WV DHHR | Bill Crouch* | Cabinet Secretary |
| WV DNR | Stephen McDaniel* | Director |
| WV Dept. of Agriculture | Kent Leonhardt* | Commissioner |
| VOAD | Jenny Gannaway | Director |
| US Senate | Shelley Moore Capito | Senator |
| US Senate | Joe Manchin | Senator |
| US House of Representatives | Alex Mooney | Representative |
| US House of Representatives | Evan Jenkins | Representative |
| US House of Representatives | David McKinley | Representative |
| HUD | Joe DeFelice | Region III Administrator |
| FEMA | MaryAnn Tierney | Region III Administrator |
| EDA | Linda Cruz-Carnall | Regional Director |

*Member of the State Resiliency Office Board

Session Details and Agenda

Date: Tuesday, November 7, 2017

Time & Location

Session 1: 9 – 11 a.m. (Senior Officials & Action Officers)
Governor's Cabinet and Conference Room

Session 2: 11 a.m. – 12:15 pm (Action Officers Only)
Building 3, 8th Floor Conference Room

| Agenda Item | Presenter | Duration | Time |
|---|-------------------|------------|-------------------|
| Welcome & Introductions | Governor's Office | 10 minutes | 9 - 9:10 a.m. |
| Review Recovery Progress & Best Practices | FEMA (TBD) | 15 minutes | 9:10 - 9:25 a.m. |
| Overview of Meeting Purpose & Objectives | Facilitator | 10 minutes | 9:25 - 9:35 a.m. |
| Session #1: Identify and Agree to State Recovery Priorities Session #2: Draft Action Plan for Achieving State Recovery Priorities | | | |
| OBJECTIVE #1: Identify and Agree to State Recovery Priorities (Senior Officials) - Identify Recovery Priority Areas - Opportunities to Strategically Align Disaster Funds - Validate Discussion & Confirm Commitments | Facilitator | 85 minutes | 9:35 – 11 a.m. |
| INTENDED OUTCOME: Agreed upon Priorities for 2016 Flood Funding and Framework for Next Steps to be executed by Action Officers | | | |
| Break & Dismissal of Senior Officials | | 10 minutes | 11 – 11:10 a.m. |
| OBJECTIVE #2: Draft Action Plan for Achieving State Recovery Priorities (Action Officers) - Discuss Role of Action Officers - Draft an Outline for an Action Plan Including Estimated Timelines and Next Meeting | Facilitator | 50 minutes | 11:10 a.m. – noon |
| INTENDED OUTCOME: Draft Action Plan Outline Based on Outcomes from Senior Officials Discussion | | | |
| Closing Remarks/ Debrief | Facilitator | 15 minutes | Noon – 12:15 p.m. |

Proposed Funding Allocations (HMGP & CDBG-DR Only)

Housing

| Funding Source | Amount |
|--|-------------------------|
| HMGP Acquisition/Demolition | \$26,793,051.38 |
| HMGP Mitigation/Reconstruction | \$7,048,580.00 |
| HMGP Elevation | \$1,095,215.00 |
| | |
| CDBG-DR Reconstruction/ Rehabilitation | \$71,899,250.00 |
| CDBG-DR Rental Assistance | \$16,000,000.00 |
| CDBG-DR Bridge Program | \$2,080,000.00 |
| CDBG-DR Multi-Family Rental Housing | \$5,875,000.00 |
| CDBG-DR Match for HMGP | \$12,440,000.00 |
| TOTAL | \$143,231,096.38 |

Infrastructure

| Funding Source | Amount |
|----------------|------------------------|
| HMGP | \$19,224,202.00 |
| CDBG-DR | N/A |
| TOTAL | \$19,224,202.00 |

Economic Development

| Funding Source | Amount |
|--------------------------------------|------------------------|
| HMGP | N/A |
| CDBG-DR Restore Riverview Project | \$5,712,000.00 |
| CDBG-DR Economic Development Program | \$12,500,000.00 |
| CDBG-DR Slum and Blight Removal | \$5,875,000.00 |
| TOTAL | \$24,087,000.00 |

Disaster Planning/Preparedness

| Funding Source | Amount |
|----------------|------------------------|
| HMGP | \$3,212,000.00 |
| CDBG-DR | \$10,000,000.00 |
| TOTAL | \$13,212,000.00 |

Disaster Recovery Fund Sources

FEMA: Hazard Mitigation Grant Program (HMGP)

1. Program Overview

- a. FEMA describes hazard mitigation as “sustainable actions taken to reduce or eliminate long-term risk to people and property from future hazards”.
- b. The Hazard Mitigation Grant Program, authorized under Section 404 of the Robert T. Stafford Act, provides states, tribes and local governments funding to implement actions designed to reduce future damages after a presidentially declared disaster.
- c. States, tribes or communities interested in pursuing funding for projects under HMGP must participate in and adopt a State, Tribal or Local Hazard Mitigation Plan. Mitigation Plans help communities identify risks and serves as a guide for decision-makers to develop potential mitigation measures to reduce or eliminate future damages.
- d. Applications for funding through the HMGP program are developed by local communities then submitted to West Virginia Department of Homeland Security and Emergency Management (WVDHSEM) for their review and prioritization. The WVDHSEM then submits project applications to FEMA for review and approval.
- e. Roles and Responsibilities:

| Authority | Role and Responsibility |
|-----------------------------|---|
| Local Jurisdiction | Develops project applications on behalf of the community, individuals and businesses |
| State or Tribal Governments | Establishes the priorities for mitigation funding. Reviews and prioritizes applications submitted and selects those applications that will be submitted to FEMA for consideration. |
| FEMA | Conducts a final eligibility review to ensure that all applications and proposed projects comply with federal regulations. Provides approval and funding to states for approved projects. |

Individuals and businesses cannot directly apply for funding through the HMGP program but can work with their designated community official to apply.

- f. Mitigation benefits include:
 - i. Creating safer communities by reducing loss of life and property,
 - ii. Enabling individuals and communities to recover more rapidly from disasters, and
 - iii. Lessening the financial impact of disaster recovery.

According to a study completed by the Multihazard Mitigation Council, for every \$1 spent on mitigation projects, an average of \$4 is saved in future recovery spending.

2. Current Status

- a. As a result of the June 2016 flooding, \$69 million (\$52 million federal share and an additional \$17 million state share) has been made available for mitigation projects through the HMGP program.
- b. As of October 3, 2017, 86 projects have been submitted to WVDHSEM estimating a total of \$60.5 million to be spent.
- c. Sixty-four of the 86 projects submitted to WVDHSEM are located within counties that have been designated as disaster areas under the June 2016 Presidential Disaster Declaration.

3. Current Project Breakdown

| Project Type | # of Applications | % of Overall Grant | Cost Per Project Type |
|-----------------------------|-------------------|--------------------|------------------------|
| Acquisitions | 44 | 44 | \$26,793,051.38 |
| Reconstruction | 12 | 12 | \$7,048,580.00 |
| Elevations | 3 | 2 | \$1,095,215.00 |
| Infrastructure Improvements | 7 | 32 | \$19,224,202.00 |
| Generators | 17 | 5 | \$3,219,901.53 |
| Studies/Planning Projects | 3 | 5 | \$3,212,000.00 |
| TOTAL | 86 | 100% | \$60,592,949.91 |

4. Upcoming Deadlines

- a. Applicant (local government) deadline for submission is November 3, 2017.
- b. State deadline to submit to FEMA is December 22, 2017.
- c. An extension to the December 22, 2017 application deadline could be requested by WVDHSEM to extend the period of availability to March 23, 2018.

HUD: Community Development Block Grant-Disaster Recovery Program

1. Program Overview

- a. 12 counties eligible for assistance.
- b. 80% of the total grant amount must benefit the Most Impacted and Distressed (MID) areas determined by HUD to be Kanawha, Greenbrier, Clay and Nicholas counties.
- c. 70% of the total funds must benefit low to moderate income (LMI) persons.

2. Current Status

- a. Total of \$149 million available for disaster recovery projects.
- b. The Grant Agreement was executed on September 18, 2017.
- c. Initial appropriation of \$104 million has been approved by HUD. \$45 million allocation is going through public review process and will be submitted to HUD.
- d. Public outreach and applicant intake began on August 1, 2017.
- e. The program has 2 static service centers: Charleston and White Sulphur Springs. Mobile intakes are performed in affected cities multiple times per week.
- f. Approximately 1,100 applicants have been screened for the housing program, with over 700 conditionally approved.
- g. Construction contractors competitively procured in June 2017 and placed under contract in July 2017.
- h. The State is currently performing a Tier 1 review to evaluate and analyze environmental impacts related to the proposed activities. This review is expected to be complete and approved by HUD in late November 2017.
- i. Construction activities are expected to begin in December 2017.

3. Current Project Breakdown

| Project Description | Traunch 1 | Traunch 2 | Traunch 3 | Total |
|---|----------------------|--------------------|---------------------|----------------------|
| RISE WV Housing Restoration Program | \$64,378,950 | | \$7,520,300 | \$71,899,250 |
| RISE WV Rental Assistance Program | \$16,000,000 | | | \$16,000,000 |
| HMGP Match | \$12,440,000 | | | \$12,440,000 |
| Bridge Home Program | \$2,080,000 | | | \$2,080,000 |
| Restore Riverview Project | \$2,500,000 | \$3,212,000 | | \$5,712,000 |
| RISE WV Slum and Blight Removal Program | | | \$5,875,000 | \$5,875,000 |
| RISE WV Multifamily Rental Housing Program | | | \$5,875,000 | \$5,875,000 |
| RISE WV Economic Development Program | | | \$12,500,000 | \$12,500,000 |
| Planning | \$1,667,050 | | \$8,332,950 | \$10,000,000 |
| State Administration | \$5,214,000 | | \$2,279,750 | \$7,493,750 |
| TOTAL | \$104,280,000 | \$3,212,000 | \$42,383,000 | \$149,875,000 |

4. Upcoming Deadlines

- Applicant (individual homeowner) deadline for the “Housing Restoration Program” and the “Rental Assistance Program” is November 30, 2017.
- Substantial amendment to the action plan for \$45 million is due November 12, 2017.

Disaster Recovery Fund Sources

FEMA Public Assistance

1. Program Overview

PA Reimbursement Program for Infrastructure allows for the return of 75% federal share cost to eligible applicants impacted.

2. Current Status

- a. 18 counties declared for Public Assistance with 133 requests received.
- b. 982 projects estimated at \$416 million.
- c. \$107 million obligated to date (federal share).
- d. 742 total properties to be demolished through Private Property Debris Removal (PPDR) program.
- e. 25 schools impacted with 5 considered substantially damaged.

3. Current Project Breakdown

| Project | # of Projects | Cost Per Project Type (Federal Share) |
|-------------------------|---------------|---------------------------------------|
| WV Division of Highways | 583 | \$ 33,138,585 |
| WVNG | 10 | \$ 2,474,757 |
| SBA (Schools) | 10 | \$ 178,342,354 |
| WVDHSEM | 31 | \$ 5,827,976 |
| DEP | 2 | \$ 787,500 |
| Municipalities | 279 | \$ 31,481,806 |
| County School Boards | 55 | \$ 33,018,413 |
| PPDR | 742 | \$ 4,902,085 |
| Management Costs | | \$10,000,000 |
| TOTAL | | \$299,973,476 |

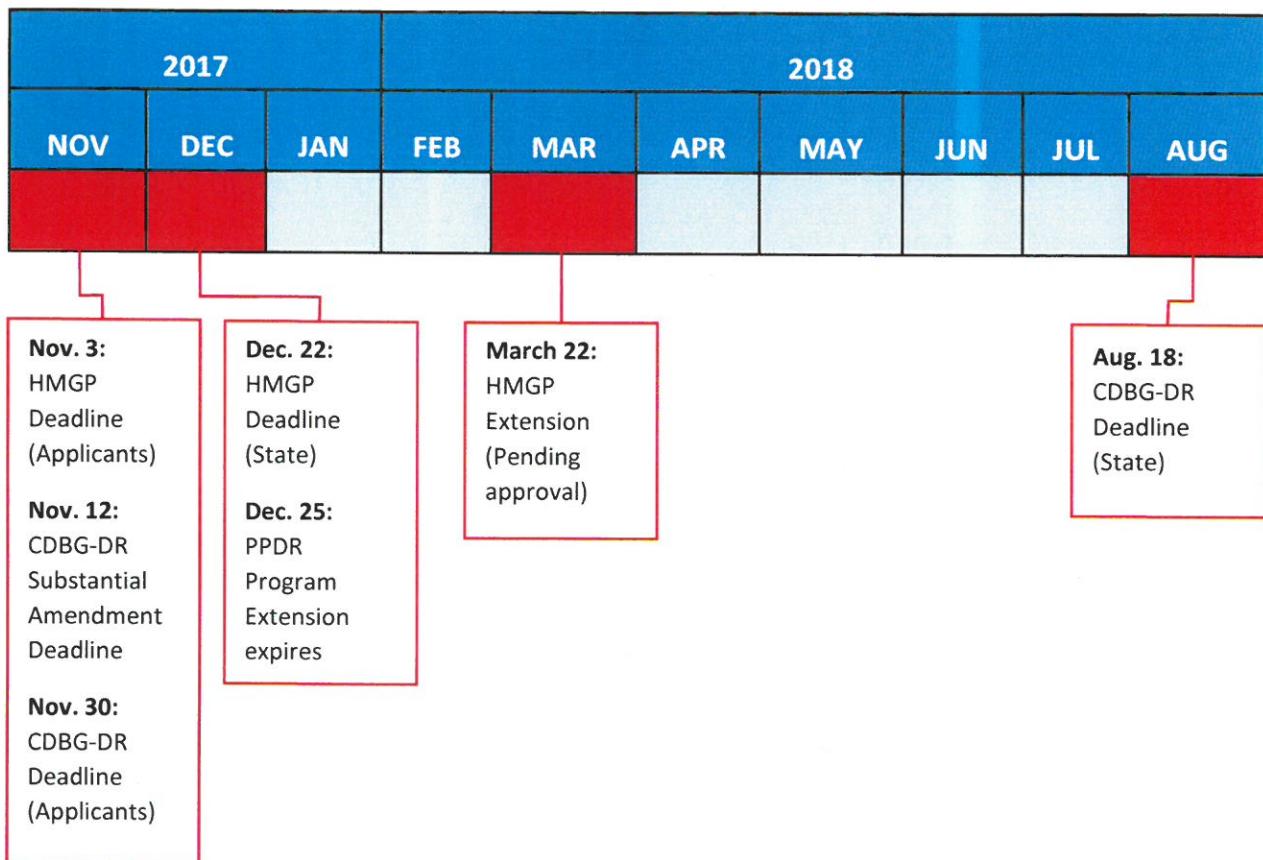
4. Upcoming Deadlines

- a. PPDR extension ending December 25, 2017.
- b. Contract demolition work extended until April 15, 2018.

Federal Assistance Overview

| Funding Type | Total Federal Allocation | State Match | Purpose of Funding |
|---|-------------------------------|----------------------|--|
| Public Assistance (PA) | \$305,500,000 | \$102,000,000 | Debris removal, emergency protective measures, and the repair, replacement, or restoration of disaster-damaged publicly-owned facilities |
| HUD CDBG-DR Hazard Mitigation Grant Program (HMGP) | \$149,000,000 \$52,000,000 | \$17,400,000 | Housing, economic development, infrastructure |
| Mission Assignment | \$108,000,000 | \$36,000,000 | Completion of specified tasks by other feds in response to a Stafford Act event. |
| Small Business Administration (SBA) Loans | \$53,000,000 | - | Home and business loan program |
| (IA) Housing Assistance | \$35,600,000 | - | Home repair and rental assistance |
| (IA) Other Needs Assistance | \$5,100,000 | \$1,680,000 | Medical and dental expenses, funeral expenses, personal property, transportation |
| Disaster Case Management Grant | \$5,820,000 | - | Disaster case management services |
| National Dislocated Workers Grant | \$3,500,000 | - | Employment for displaced workers |
| (IA) Regular Service Program | \$2,200,000 | - | Crisis counseling services |
| MHU Mission | \$5,580,000 | - | Hauling, installation, maintenance and de-activation of all MHUs |
| 406 Mitigation | \$1,280,000 | - | Mitigation measures in conjunction with the repair of disaster-damaged facilities |
| Immediate Needs Assistance | \$810,000 | \$270,000 | Survivor supplies for victims |
| (IA) Immediate Service Program | \$304,000 | - | Crisis counseling services |
| 106 Mitigation | \$250,000 | - | Mitigation efforts that consider the effects of actions on historic properties |
| Disaster Unemployment Assistance | \$213,000 | - | Unemployment assistance |
| Total (Non-Management) | \$728,157,000 | \$157,350,000 | |
| PA Section 324 Management Costs | \$10,000,000 | - | Indirect costs and administrative expenses |
| HMGP State Management Costs | \$2,500,000 | - | Indirect costs and administrative expenses |
| Total (State Management Only) | \$12,500,000 | | |

Summary of Deadlines



FEMA 4273-DR, West Virginia Flooding
Hazard Mitigation Grant Program: Applications and Project Costs

Hazard Mitigation Grant Program: Applications and Project Costs



FEMA

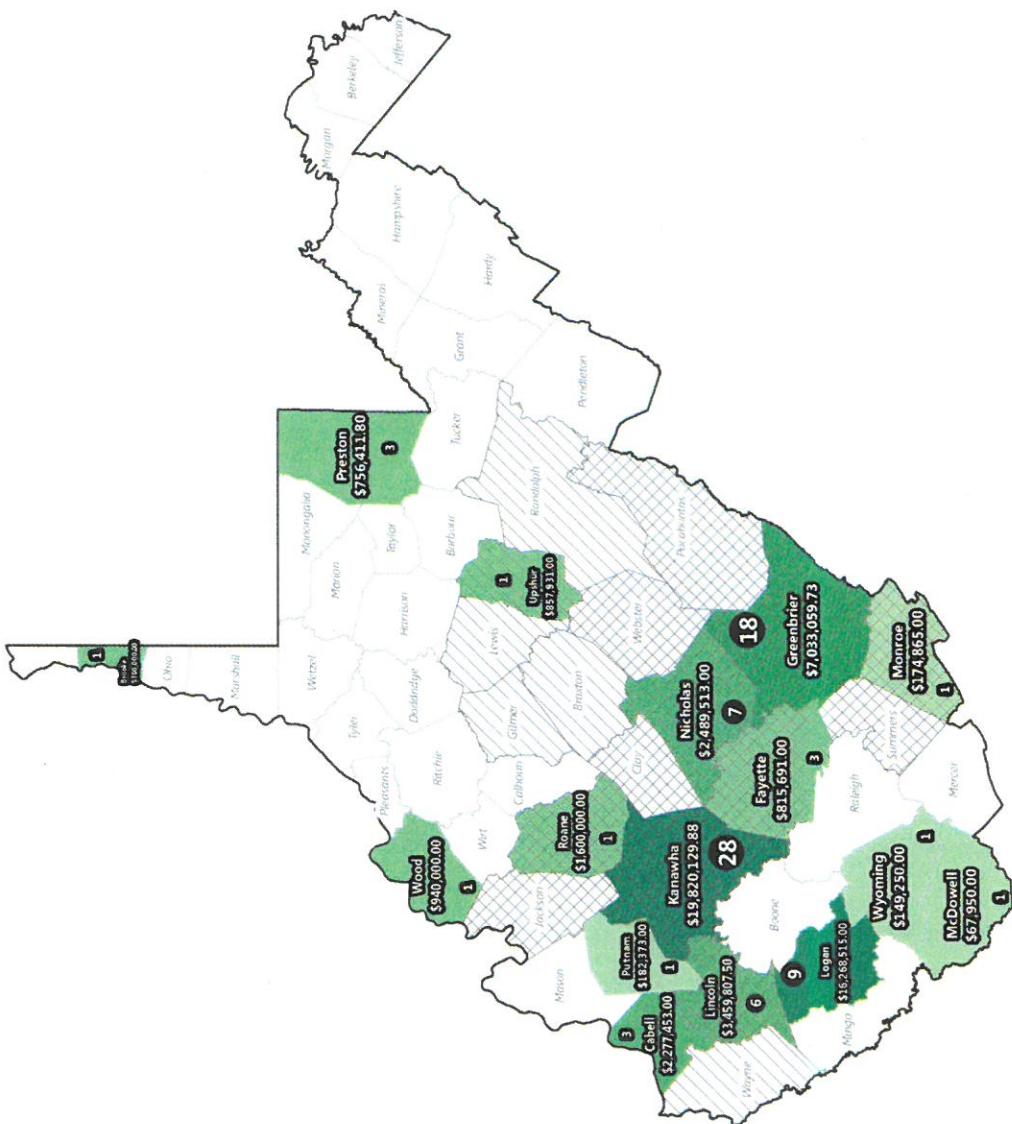
Hazard Mitigation Grant Program: Applications and Project Costs

Data Layer / Map Description:
The amount of applications and the total project costs by county for DR-4273.

Coordinate System WGS 1984 World Mercator

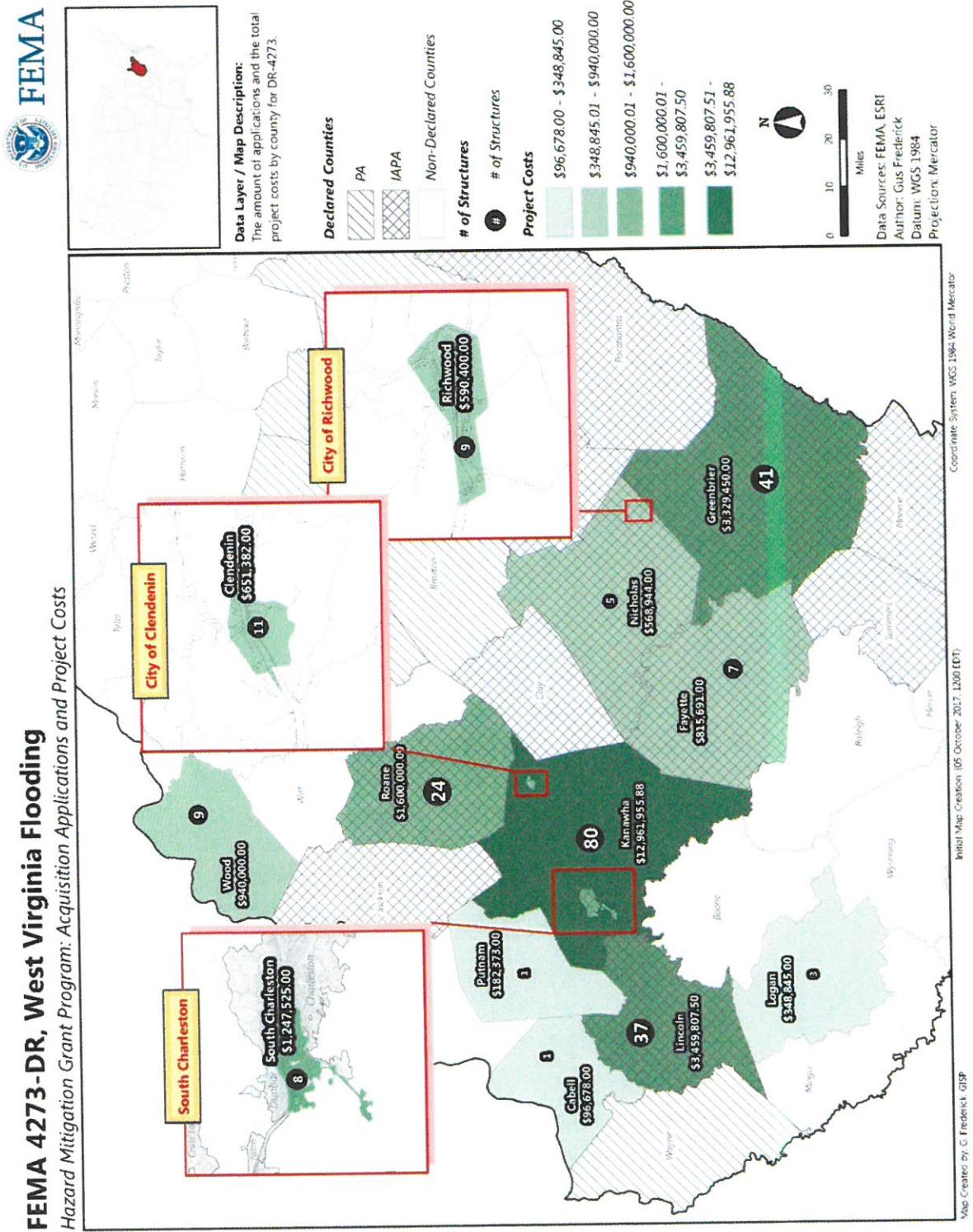
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Wiley Catalogue 334



FEMA 4273-DR, West Virginia Flooding

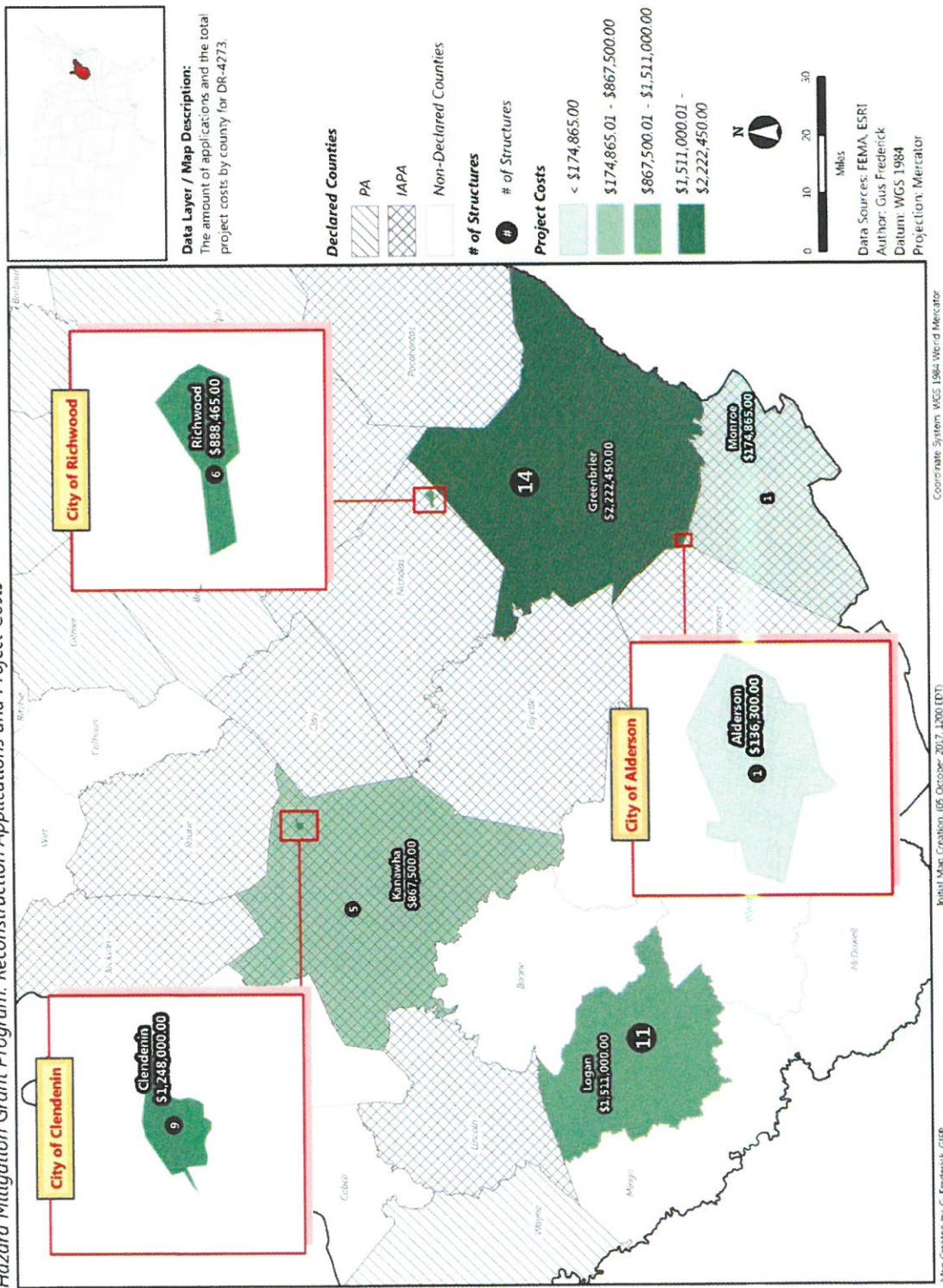
Hazard Mitigation Grant Program: Acquisition Applications and Project Costs





FEMA 4273-DR, West Virginia Flooding

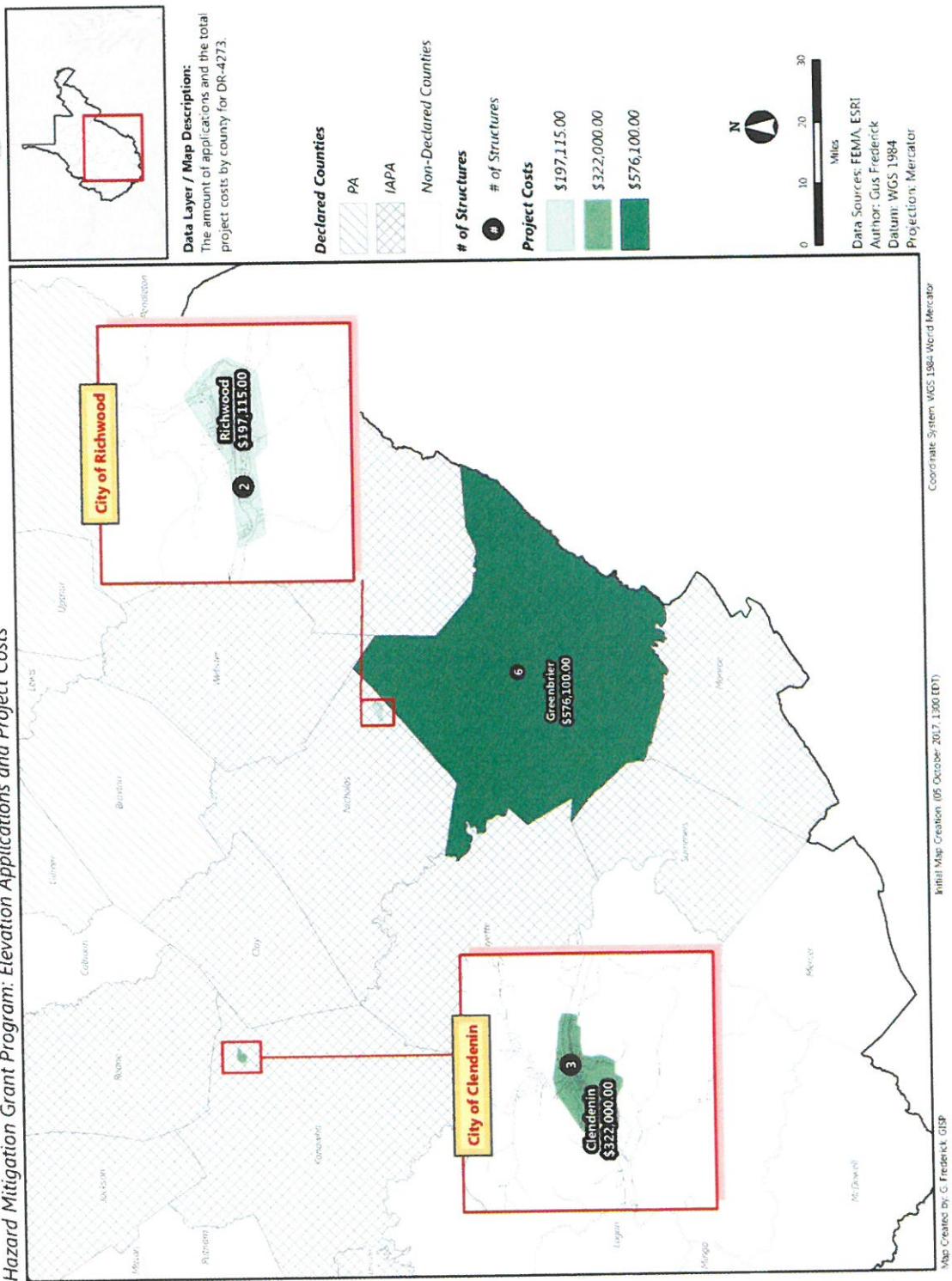
Hazard Mitigation Grant Program: Reconstruction Applications and Project Costs

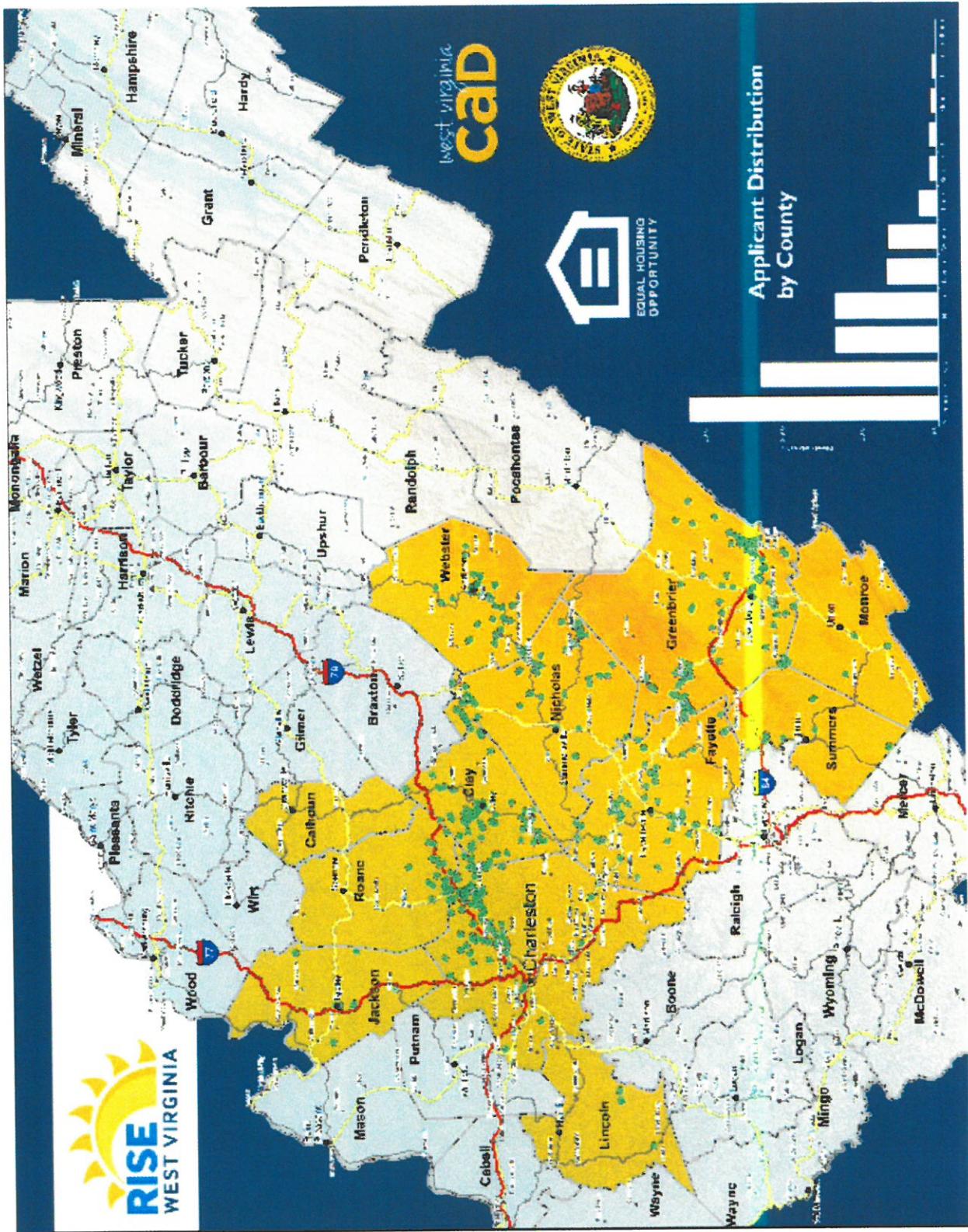




FEMA 4273-DR, West Virginia Flooding

Hazard Mitigation Grant Program: Elevation Applications and Project Costs





Summit Decision Points

Session #1: Identify and Agree to State Recovery Priorities

1. Are there specific focus areas for disaster recovery funds or will funds be spread across entire state? Does the current model of distribution work best?
2. Is there a need for one department to take the lead in a specific priority area or should each department address the need where possible?
3. Can existing initiatives or emerging industries be leveraged in affected communities?
4. How can non-disaster funds support the priorities and strategy from 4273 and beyond?
5. Is there consensus among stakeholders on the identified priorities during the summit?

Session #2: Draft Action Plan for Achieving State Recovery Priorities

1. Should an action officer be identified and empowered to lead the process to create a framework?
2. What does a completed framework look like and how can it applied statewide?
3. Is there long-term applicability for the framework? If so, how long will the current priorities and strategies be relevant?
4. Will this framework be updated over time? If so, who will take the lead to regularly review the framework and convene meetings?
5. How does the WV State Resiliency Office tie into the process?

GOVERNOR'S FLOOD RECOVERY & ALLIANCE SESSION



November 21, 2017 AGENDA

| | |
|----------|--|
| 10:00 AM | Welcome & Introductions |
| | Role of the Action Officer |
| 10:30 AM | Expectations/Deliverables What are realistic expectations deliverables for the group? What resources are needed to complete each? |
| 11:00 AM | Process/Recommendations What does the process look like to make recommendations to the SRO Board for implementation? |
| 11:30 AM | Review/Feedback Initial review and feedback of the current WV Flood Protection Plan |
| Noon | Next Steps |

Role of Action Officers

- Identify agency programs, resources and authorities to support disaster recovery.
- Address priority areas where consensus was not gained and provide recommendations to senior officials.
- Identify additional resources and technical assistance that can be offered to disaster impacted communities.
- Identify coordination opportunities within department and network.
- Create the framework and strategies for an action plan related to recovery efforts.

GOVERNOR'S
FLOOD RECOVERY
& ALLIANCE SESSION



FEMA

State Resiliency Board Action Officer Meeting

November 21, 2017

Action Items:

Members should consider any state emergency plans they may have access to, to research best practices in the state

Attendance:

Brian Farkas, WVCA
Danny Bennett, WVDNR
Rusty Joins, WVDEP
James Young, FEMA
Russell Tarry, WVDO
Carrie Robinette, FEMA
Rob Pennington, WVDOH
Hannah Trautwein, WVDO
Kevin Snyder, FEMA

One of the first discussions of our meeting was: Who do we have, and who do we need?

Some of those mentioned were:

WVU (FORWARD Report)
Land Use Clinic
Marshall University
Brownfield Center
Kevin Sneed
Greg Myers

We then went into Reports from each agency present on their specific specialties.

DNR- Danny Bennett

Has hand in initial response to disasters when needed (boats, etc.)

DNR is responsible for all wildlife, although endangered species is not the biggest part. That responsibility falls on Fish and Wildlife services, who DNR works closely with.

Danny would be point of contact for blockages in streams, and does field reviews.

Immediate for this office would be in the first 3 months, and anything that affected life and property.

DEP- Rusty Joins

Specialize in Waste/Debris Removal and Management

-Provides oversight

-Controls hazardous material

-Approves changes to normal operations during emergency

-Also oversees air quality/permits for burnings.

DOH- Rob Pennington

Federal Funding: Called ER must be tied to specific site (1/3rd of projects in disaster) can be paid for with federal allocations.

The 2/3rds of projects that are not funded by the ER Stream may use FEMA eligible routes, for hollows, non-federal roads etc.

Federal funding for this does not come in quickly, but accounts are flexible enough that DOH can pay out of pocket and be reimbursed if necessary.

Not a great upgrade/hazard mitigation/betterment process with these strict funding sources.

Carrie spoke about Public Assistance funds under 406 from the Stafford Act Mitigation plan that makes it difficult to repair anything other than the damaged element itself, not necessarily underlying causes. She did say she was not a Public Assistance specialist, and we spoke about inviting a PA specialist to a meeting in the future if needed. Greg Myers particularly.

HMGP did close its applications on November 3rd, 2017, and is asking for a review period extension until March of 2018. They will not take any more applications, it is specifically a review period.

WVDO- Russ Tarry

Hope that the SRO can be a place that is supportive and managing of other agencies during initial disaster period, but does not have immediate response as of now.

CDBG is the long-term source where federal funding will come from, earmarked for Housing, economic development, Infrastructure and others.

This brought up the idea that different agencies define infrastructure differently. The Development office means: Water, sewer, and roads primarily. Russ said he will get with HUD for an official definition.

The comment was also made that many agencies have infrastructure programs that may not be coordinating as much as possible. (Pre-Disaster Mitigation grant program was mentioned)

The idea was also thrown out that we could have different committees working with us on Housing, Infrastructure, Economic development etc., and this turned into discussion on how big this process is going to be.

Brian Farkas said that the group should realize that this undertaking would take dedication, resources, and full-time commitment for at least a year.

This includes full time staffing, and resources.

It was decided that to begin with, staff should all be in Charleston, and eventually be regionalized as needed.

The SRO needs 4/5 people, that can help in Housing, Infrastructure, Economic Development, Natural Resources, Planning, Watershed, Health/Social Etc.

Before we hire these people, we as a board need to know what our definition of Resiliency is.

We could hire out of other agencies on a 6 month to 1-year contract. As the SRO gets up and running.

Where would we start regionally? Where there have been the most disasters- Mingo and Wyoming county.

We also realized that there are many plans out there that we can use as resources to develop one comprehensive state plan under the SRO.

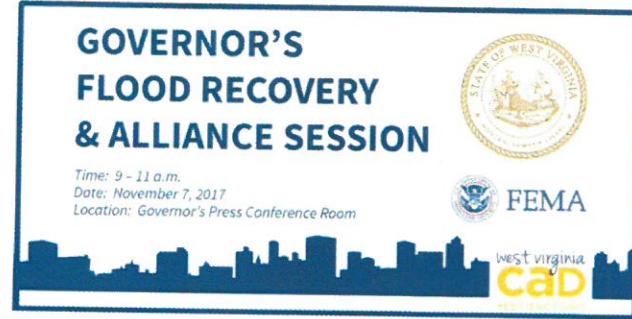
Some other thoughts were on the definition of Resiliency. We said Resiliency included:

Taking advantage of opportunities, may use the words shock and stressors to include flood/natural disasters as well as economic downturn, and the understanding that we need to be able to use money if it's given to us.

Un-resilient Coding was mentioned as a reason for lack of resiliency in WV. (Compliance, Intergovernmental reviews, and Resiliency Reviews)

It was decided that we need a charter to begin defining what resiliency means to us, what the vision is for the SRO, and have expectations set for SRO employees. The goal is for Brian and Russ to have the Charter drafted and sent to Action Officers by December 1st, and the next meeting will be December 14th at 10:00am

-Since our meeting, Brian Farkas, Russell Tarry and Jeff Wood met to discuss the Charter. They have an outline and are excited to present and brainstorm for final charter discussion at our next meeting.



Meeting Summary & Outline of Unified Strategy

I. Summary

On November 7, 2017, Governor Jim Justice convened senior-level state and federal officials to create a unified strategy regarding disaster recovery funds from the floods of 2016. The discussion was the first in a series of senior level meetings to look at strategically aligning those funds. The meeting was an important step in the creation of the strategy and empowered appointed action officers to create a strategy to align and leverage the disaster funding.

The action officers were tasked to further explore options and bring recommendations to the senior officials for approval. They will meet on a more regular basis to draft a unified strategy for 2016 funds and delve into the roles and responsibilities of state departments and divisions. This role will also support the establishment of the West Virginia State Resiliency Office (SRO). All efforts combined will ensure that West Virginia becomes more resilient and continues to take a unified and strategic approach to disaster recovery.

The facilitated discussion addressed five major topics:

- 1. Ranked Priorities**
- 2. Guiding Principles**
- 3. Reprioritization of Hazard Mitigation Grant Program (HMGP) Applications**
- 4. Reallocation of Community Development Block Grant –Disaster Recovery (CDBG-DR) Funds**
- 5. Role of Action Officers**

Sections II through VI of this document provide more detail on each major topic and what was agreed to during the Session. These sections can serve as the basis for a unified strategy regarding 2016 flood funding. The final section (VII) proposes next steps for the senior leadership group and the action officers.

Also included are two appendices: a list of Session attendees and detailed notes from the proceedings.

II. Ranked Priorities

Much of the morning session focused on the need to identify priorities for the State's disaster recovery funds from the June 2016 floods. The disaster marked the first time that West Virginia received a CDBG-DR allocation and it was the largest amount of HMGP funds ever received. Due to the complexity of the situation, the meeting was convened to ensure that there was a holistic strategy for the use of these recovery funds. The facilitator proposed overarching priority areas based upon the functional areas where funds were already earmarked. This led to a lengthy and detailed discussion regarding priorities. The resulting ranked priority areas were identified, ranked and confirmed:

1. Infrastructure
2. Economic Development
3. Housing

III. Guiding Principles

While determining priorities, participants discussed overarching ideas or principles that should influence all decision making in the state. The prevalent theme in the discussion was ensuring that funding decisions and recovery efforts should decrease risk over time and make communities more resilient. It was decided that the group would use guiding principles to serve as "decision points" when looking at the merit of state funded projects, with three guiding principles identified:

1. Resiliency
2. Mitigation
3. Job Creation

IV. Reprioritization of HMGP Applications

With the influx of disaster recovery funds, recovery programs have the potential to duplicate efforts and even convolute the recovery process. Concerns were raised that both CDBG-DR and HMGP were allocating more funding towards housing recovery than the existing unmet need. There was also discussion about needs in the other function areas. The West Virginia Department of Homeland Security & Emergency Management (WV DHSEM) and the West Virginia Department of Commerce (WV DOC) began meetings to discuss in part how to best coordinate the two programs. As a result of these meetings and the Session, the WV DHSEM is now looking at the reprioritization of grant applications and ways to streamline the HMGP/CDBG-DR funding match, with agreement on the following: